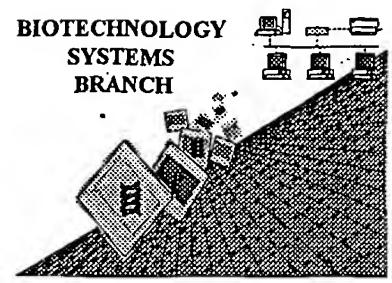
0590 ~~0480~~
0179

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/010,184
Source: OIPE
Date Processed by STIC: 12/21/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:
1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202
4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

BEST AVAILABLE COPY

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/010,184

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAR

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 ✓	Use of <220>	Sequence(s) 5, 8 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING DATE: 12/21/2001
PATENT APPLICATION: US/10/010,184 TIME: 08:45:55

Input Set : A:\7087.ST25.txt
Output Set: N:\CRF3\12212001\J010184.raw

3 <110> APPLICANT: Bristol-Myers Squibb Pharma Company
4 Priestly, et al.
6 <120> TITLE OF INVENTION: Novel Lactam Inhibitors of Hepatitis C Virus NS3 Protease
8 <130> FILE REFERENCE: PH-7087-A
C--> 10 **<140> CURRENT APPLICATION NUMBER: US/10/010,184**
C--> 10 **<141> CURRENT FILING DATE: 2001-12-06**
10 <150> PRIOR APPLICATION NUMBER: US 09/626,286
11 <151> PRIOR FILING DATE: 2000-07-25
13 <160> NUMBER OF SEQ ID NOS: 8
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 6
19 <212> TYPE; PRT
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A pept
24 ide synthesizer using readily available materials well known to o
25 rdinarily skilled artisans
27 <220> FEATURE:
28 <221> NAME/KEY: ACT_SITE
29 <222> LOCATION: (1)..(1)
30 <223> OTHER INFORMATION:
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (3)..(3)
36 <223> OTHER INFORMATION: diphenylalanine
39 <220> FEATURE:
40 <221> NAME/KEY: misc_feature
41 <222> LOCATION: (5)..(5)
42 <223> OTHER INFORMATION: cyclohexylalanine
45 <400> SEQUENCE: 1
47 **Asp Glu Xaa Glu Xaa Cys**
48 1 5
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 6
53 <212> TYPE: PRT
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A pept
58 ide synthesizer using readily available materials well known to o
59 rdinarily skilled artisans
61 <220> FEATURE:
62 <221> NAME/KEY: MOD_RES
63 <222> LOCATION: (1)..(1)
64 <223> OTHER INFORMATION: Acetylation
67 <220> FEATURE:

Does Not Comply
Corrected Diskette Needed
pp 3-4

68 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING DATE: 12/21/2001
PATENT APPLICATION: US/10/010,184 TIME: 08:45:55

Input Set : A:\7087.ST25.txt
Output Set: N:\CRF3\12212001\J010184.raw

69 <222> LOCATION: (2)..(2)
70 <223> OTHER INFORMATION: D-Aspartic Acid
73 <400> SEQUENCE: 2
75 Asp Xaa Ile Val Pro Cys
76 1 5
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 5
81 <212> TYPE: PRT
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A pept
86 ide synthesizer using readily available materials well known to o
87 rdinarily skilled artisans
89 <400> SEQUENCE: 3
91 Met Gly Ala Gln His
92 1 5
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 15
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A pept
102 ide synthesizer using readily available materials well known to o
103 rdinarily skilled artisans
105 <400> SEQUENCE: 4
107 Met Arg Gly Ser His His His His His His Met Gly Ala Gln His
108 1 5 10 15
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 6
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (6)..(6)
119 <223> OTHER INFORMATION: 2-amino-4-penten-boronic acid
122 <400> SEQUENCE: 5
124 Asp Glu Val Val Pro Xaa
125 1 5
128 <210> SEQ ID NO: 6
129 <211> LENGTH: 5
130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A pept
135 ide synthesizer using readily available materials well known to o
136 rdinarily skilled artisans
138 <220> FEATURE:
139 <221> NAME/KEY: ACETYLATION
140 <222> LOCATION: (1)..(1)

see item 11 on Error Summary Sheet

RAW SEQUENCE LISTING DATE: 12/21/2001
PATENT APPLICATION: US/10/010,184 TIME: 08:45:55

Input Set : A:\7087.ST25.txt
Output Set: N:\CRF3\12212001\J010184.raw

```
     141 <223> OTHER INFORMATION: Acetylation
     144 <220> FEATURE:
     145 <221> NAME/KEY: AMIDATION
     146 <222> LOCATION: (5)..(5)
     147 <223> OTHER INFORMATION: para-nitroanaline
     150 <400> SEQUENCE: 6
     152 Asp Glu Glu Ala Cys
     153 1               5
     156 <210> SEQ ID NO: 7
     157 <211> LENGTH: 23
     158 <212> TYPE: PRT
     159 <213> ORGANISM: Artificial Sequence
     161 <220> FEATURE:
     162 <223> OTHER INFORMATION: The synthesis of this peptide may be performed on an ABI 43A
pept
     163       ide synthesizer using readily available materials well known to o
     164       rdinarily skilled artisans
     166 <400> SEQUENCE: 7
     168 Lys Lys Gly Ser Val Val Ile Val Gly Arg Ile Val Leu Ser Gly Lys
     169 1               5                   10                  15
     172 Pro Ala Ile Ile Pro Lys Lys
     173             20
     176 <210> SEQ ID NO: 8
     177 <211> LENGTH: 9
     178 <212> TYPE: PRT
C--> 179 <213> ORGANISM: Artificial
     181 <220> FEATURE:
     182 <221> NAME/KEY: ACETYLATION
     183 <222> LOCATION: (1)..(1)
     184 <223> OTHER INFORMATION: acetyl group
     187 <220> FEATURE:
     188 <221> NAME/KEY: MOD_RES
     189 <222> LOCATION: (3)..(3)
     190 <223> OTHER INFORMATION: Aspartic acid modified with EDANS, 5-[(2'-aminoethyl)amino]
naphth
     191       ylene sulfonic acid
     194 <220> FEATURE:
     195 <221> NAME/KEY: MISC_FEATURE
     196 <222> LOCATION: (6)..(6)
     197 <223> OTHER INFORMATION: 2-amino butyric acid bonded through an ester group
     200 <220> FEATURE:
     201 <221> NAME/KEY: MOD_RES
     202 <222> LOCATION: (9)..(9)
     203 <223> OTHER INFORMATION: Lysine modified by Dabcyl; 4-[[4'(dimethylamino)phenyl]azo]
benzoi
     204       c acid
     207 <400> SEQUENCE: 8
W--> 209 Asp Glu Asp Glu Glu Xaa Ala Ser Lys
     210 1               5
```

see item 11

VERIFICATION SUMMARY DATE: 12/21/2001
PATENT APPLICATION: US/10/010,184 TIME: 08:45:56

Input Set : A:\7087.ST25.txt
Output Set: N:\CRF3\12212001\J010184.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:114 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:179 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8